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     (FILE 'HOME' ENTERED AT 16:57:44 ON 09 JUL 1997)

     FILE 'BIOSIS, CA, MEDLINE' ENTERED AT 16:58:04 ON 09 JUL 1997
L1             2 FILE BIOSIS
L2             2 FILE CA
L3             0 FILE MEDLINE
     TOTAL FOR ALL FILES
L4             4 EGGSHELL#(5A)CRUSH?
L5             3 FILE BIOSIS
L6             5 FILE CA
L7             0 FILE MEDLINE
     TOTAL FOR ALL FILES
L8             8 EGGSHELL#(5A)(MILL? OR GRIND? OR GROUND)
L9             7 DUPLICATE REMOVE L8 (1 DUPLICATE REMOVED)
L10            0 FILE BIOSIS
L11            0 FILE CA
L12            0 FILE MEDLINE
     TOTAL FOR ALL FILES
L13            0 PUTAMEN OVI
L14         4535 FILE BIOSIS
L15         2923 FILE CA
L16         4973 FILE MEDLINE
     TOTAL FOR ALL FILES
L17        12431 PUTAMEN

     FILE 'WPIDS' ENTERED AT 17:04:26 ON 09 JUL 1997
L18            6 L4
L19            6 L8

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L18 ANSWER 1 OF 6 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD
AN 96-366170 [37] WPIDS
DNN N96-308467 DNC C96-115431
TI ***Eggshell*** membrane sepg. device - comprises ***crusher*** which operates in water flow, and liq. cyclone to separate shells and membranes by specific gravity difference.
DC D22 J01 P34 P41
PA (QPPP) QP CORP
CYC 1
PI JP 08173838 A 960709 (9637)* 7 pp
ADT JP 08173838 A JP 95-178653 950714
PRAI JP 94-260497 941025
AB JP08173838 A UPAB: 960918
Eggshell and membrane sepg. device comprises (a) a ***crushing*** device (3) to ***crush*** an ***eggshell*** with an ***eggshell*** membrane in a water flow for conveyance and (b) a liq. cyclone (9) to receive the ***crushed*** ***eggshell*** , ***eggshell*** membrane and water for transfer, and separate the eggshell and the eggshell membrane from each other by utilising specific gravity differences.
ADVANTAGE - Eggshell and membrane are sepd. from each other with high efficiency.
Dwg.1/7

L19 ANSWER 1 OF 6 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD
AN 96-268245 [27] WPIDS
DNC C96-085171
TI Milk prods. contg. finely ***ground*** ***eggshell*** - having good taste in a calcium fortified foodstuff.
DC D13
IN GLAS, C; SCHAAFSMA, A
PA (FRIE-N) FRIESLAND BRANDS BV
CYC 68
PI WO 9615678 A1 960530 (9627)* EN 17 pp
RW: AT BE CH DE DK ES FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG
W: AL AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TT UA UG US UZ VN
NL 9401958 A 960701 (9631) 13 pp
AU 9539380 A 960617 (9638)
ZA 9509881 A 961030 (9649) 14 pp
ADT WO 9615678 A1 WO 95-NL396 951121; NL 9401958 A NL 94-1958 941123; AU 9539380 A AU 95-39380 951121; ZA 9509881 A ZA 95-9881 951121
FDT AU 9539380 A Based on WO 9615678
PRAI NL 94-1958 941123
AB WO 9615678 A UPAB: 960710
Foods based on milk prods. are supplemented with aseptically obtd. and/or sterilised or low-germ fine ***ground*** ***eggshell***
.
USE - Prods. are fortified and have good taste.
Dwg.0/0

L9 ANSWER 7 OF 7 CA COPYRIGHT 1997 ACS
AN 74:103024 CA
TI Use of eggshell compositions for promoting wound healing
IN Balassa, Leslie L.
SO U.S., 3 pp.
CODEN: USXXAM
PI US 3558771 710126
AI US 680212
DT Patent
LA English
AB Finely ***ground*** (40-70 .mu. particle size) ***eggshells*** are effective in the title use whether or not membrane is present. Application methods are the same as those given for animal membrane prepns. in U.S. 3,400,199 (CA 69: 99397u).

L19 ANSWER 6 OF 6 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD
AN 72-01195T [01] WPIDS
TI Wound accelerator - contg eggshells and citric or phosphoric acid opt with magnesium and calcium salts and chitin.
DC B05 B06
PA (LESC-N) LESCARDEN LTD
CYC 1
PI US 3624201 A (7201)*
PRAI US 68-704540 680212
AB US 3624201 A UPAB: 930000
Process for the acceleration of wound-heating in humans and other mammals comprises the topical or parenteral administration of a therapeutically effective dose of a finely-divided reaction product prepd. by ***grinding*** ***eggshells*** contg. CaCO3 with citric or phosphoric acid to produce the Ca salt of the acid so that the reaction product, when administered, contains no unreacted acid.

L9 ANSWER 5 OF 7 CA COPYRIGHT 1997 ACS
AN 98:103492 CA
TI Egg shell as a carrier for enzyme immobilization
AU Makkar, H. P. S.; Sharma, O. P.
CS Biochem. Lab., Indian Vet. Res. Inst., Palampur, 176 061, India
SO Biotechnol. Bioeng. (1983), 25(2), 595-7
CODEN: BIBIAU; ISSN: 0006-3592
DT Journal
LA English
AB Enzyme immobilization on egg shell carrier was investigated. Thus, ***ground*** ***eggshell*** (0.5 g of 100 mesh) was added to 12 mL of a .beta.-galactosidase soln. (protein 0.4 mg/mL) and stirred for 15 min. Glutaraldehyde (25%) was slowly added with stirring to bring to a final concn. of 2.0%. The mixt. was allowed to stand for 30 min at 4.degree., then bound enzyme was sepd. by centrifugation and washed with phosphate buffer. The immobilized enzyme had pH and temp. optimums of 6.5 and 45.degree., resp., and was stable for 2 days at 4.degree..

L19 ANSWER 2 OF 6 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD
AN 93-150083 [18] WPIDS
DNC C93-067166
TI Prodn. of fodder additive for egg-laying hens - from poultry-farm waste, by washing, milling, sterilising, and mixing with alumino-silicate components.
DC D13
IN KUZNETSOV, A F; LAVRENTEV, V A; MUKHINA, N V
PA (LENE-R) LENGD NEVSKAYA POULTRY WKS; (LEVE) LENGD VETERINARY INST
CYC 1
PI SU 1732907 A1 920515 (9318)* 8 pp
ADT SU 1732907 A1 SU 90-4812293 900226
PRAI SU 90-4812293 900226
AB SU 1732907 A UPAB: 931112
The method comprises prodn. of food additive on basis of poultry farm waste (low grade meat, intestines, ovaries, ovarian ducts, heads, entrails, lungs, kidneys, trachea, stomachs, blood, down, downgrade egg waste, chicken embryos, ***eggshells*** , etc.). The waste is washed, ***milled*** , sterilised and mixed at final stages of drying (15-20 min before unloading) with aluminosilicates in form of zeolite, vermiculite, kieselguhr or perlite, in amt. 20-50% per wt. of starting waste.

Addn. of aluminosilicates results in stabilisation of fat components of additive, reduces its acid No. directly after prepn. and on storage, ensures uniform distribution of active substances within the mass of additive and reduces caking tendency of additive during storage. Obtd. additive is fed to chicks and hens in amt. 5-10% per wt. of standard feed.

USE/ADVANTAGE - Used in fodder industry for prodn. of feed additive for chicken and egg-laying hens. The additive improves quality of chicken feed, survival rate, egg-laying efficiency and strength of egg-shells. Bul. 18/15.5.92

Dwg. 0/0

L19 ANSWER 3 OF 6 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD
AN 92-132525 [17] WPIDS
DNN N92-098881 DNC C92-062002
TI Calcium addn. to cooking salt - in form of ***ground*** ***eggshell*** flour, for improved nutritional value.
DC D13
IN SAMARTANO, M L
PA (SAMA-I) SAMARTANO M L
CYC 1
PI BR 9004780 A 920324 (9217)*
ADT BR 9004780 A BR 90-4780 900919
PRAI BR 90-4780 900919
AB BR 9004780 A UPAB: 931006
Nutritional value of compsn. is increased by addn. of calcium in the form of eggshell flour, made by washing, drying and baking the shells, then milling into flour. (8/9)
8/9

L19 ANSWER 4 OF 6 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD
AN 88-004848 [01] WPIDS
DNC C88-002404
TI Cosmetic material contg. powdered egg-shell - has good absorptivity for oils and moisture.
DC D21
PA (SHIS) SHISEIDO CO LTD
CYC 1
PI JP 62270511 A 871124 (8801)* 5 pp
ADT JP 62270511 A JP 86-115037 860520
PRAI JP 86-115037 860520
AB JP62270511 A UPAB: 930923
Cosmetic material is prepd. by blending powdered eggshell. Typically, the powder is obtd. by ***grinding*** ***eggshells*** of fowls, quails, etc. pref. to a grain size of 0.001-1,000 (sic) using an atomiser, etc.
ADVANTAGE - Cosmetic material has high absorptivity for moisture and oils.
0/0

SWER 5 OF 6 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD
AN 77-36815Y [21] WPIDS
TI Plastic food container cleaning compsn. - comprises press. spray contg. alkali, insol. material and surfactant.
DC D14
PA (PYRN) PYRENE CHEM SERVICE
CYC 1
PI GB 1474389 A 770525 (7721)*
PRAI GB 73-28785 730618
AB GB 1474389 A UPAB: 930901

Contaminated surfaces are cleaned by forcibly spraying an alkaline suspension (pH pref. >=8) contg. e.g. 0.01-5, (pref. 1) wt.% of finely divided insol. material (I), e.g. <=3 wt. % of a sol. surfactant (II) and e.g. <=5 wt. %sol. alkali (III) e.g. alkali metal silicate or phosphate.

The compsn. is pref. made by diluting in water to give a dissolved and undissolved total solids content of 1-13 wt.%, a dry mixt. of 5-75 wt.% (I), 0.5-20 wt.% (II) and 5-75 wt.% (III).

The free rinsing compsn. is esp. useful for cleaning plastic food transport containers. In an example, a dry concentrate contd. 0.5 pbw Na metasilicate, 0.4 pbw Na3PO4, 0.6 pbw Na2CO3, 0.25 pbw K. oleic acid sulphonate, 0.1 pbw hydroxyethyl cellulose and 1 pbw ***ground*** ***eggshells***

L18 ANSWER 2 OF 6 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD
AN 93-330532 [42] WPIDS
CR 83-767559 [38]
DNC C93-145978
TI Quality improver for noodles - comprises eggshells composed of calcium carbonate.
DC D13
PA (QPPP) QP CORP
CYC 1
PI JP 05236893 A 930917 (9342)* 3 pp
JP 06085697 B2 941102 (9442)
ADT JP 05236893 A Div ex JP 82-14895 820203, JP 90-402272 820203; JP 06085697 B2 Div ex JP 82-14895 820203, JP 90-402272 820203
FDT JP 06085697 B2 Based on JP 05236893
PRAI JP 82-14895 820203; JP 90-402272 820203
AB JP05236893 A UPAB: 931202
The quality improver for noodles comprises ***crushed*** ***eggshells*** composed of CaCO3.
USE - For obtaining healthy and inexpensive quality improver for noodles which can be substd. for a phosphate or propylene glycol.
Dwg.0/0

L18 ANSWER 3 OF 6 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD
AN 90-310105 [41] WPIDS
DNC C90-134115
TI Purification of natural calcium material - comprises pulverising e.g. egg-shell and treating with e.g. halorate in alkaline soln. to remove protein impurities.
DC B06 D13 E33
PA (ZENN-I) ZENNO H
CYC 1
PI JP 02221117 A 900904 (9041)*
JP 08018829 B2 960228 (9613) 3 pp
ADT JP 02221117 A JP 89-41298 890220; JP 08018829 B2 JP 89-41298 890220
FDT JP 08018829 B2 Based on JP 02221117
PRAI JP 89-41298 890220
AB JP02221117 A UPAB: 930928
Natural Ca material is purified by pulverising or ***crushing*** ***eggshell*** , animal bone, shell or carapace if necessary, and treating with halorite, halorate, perhalorate, halogen dioxides, chloramines, isocyanuric halogenide, halogenated hydantoins, peroxide, peracids or permanganate aq. soln. in alkaline aq. soln., alkaline halorite or neutral, alkaline or weak acidity.

USE/ADVANTAGE - Protein impurities can be removed completely, to give white material. Also there is a little discolouration. No toxic gas gas producing agent is used, danger is a little, it is suitable for industrial proceeding.

In an example, 100 ml of 5% NaOH aq. soln., 10 g of H2O washed and air dired eggshells were added and warmed at 95-98 deg C for 2 hrs. with stirring sometimes. Soln. light yellow. After cooling, sedimented eggshells were filtered, washed with H2O, and air-dried. Original colour of eggshell was not charged, but not shell membrane was observed. A small amt. of white foreign matters were floated in soln., but can be removed completely by H2O washing.
0/0

L18 ANSWER 4 OF 6 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD
AN 88-311493 [44] WPIDS
DNC C88-137684
TI Flocculant for water purificn. - comprises micro powder of calcium carbonate or crushed rock.
DC D15
PA (HOND-I) HONDA S
CYC 1
PI JP 63229111 A 880926 (8844)* 5 pp
ADT JP 63229111 A JP 87-136392 870530
PRAI JP 86-239653 861008; JP 87-136392 870530
AB JP63229111 A UPAB: 930923
The flocculant consists of micro powder of calcium carbonate or crushed rock powder having 0.05 - 0.001 mmtheta particle dia..

The calcium carbonate is e.g. ***eggshell*** of chicken. The ***crushed*** rock is e.g. granite, basalt. Calcium carbonate or crushed rock is pref. shattered with a mill to 0.05 - 0.001 mmtheta powder. Addition of little water brings smooth operation. Waste water is passed through a screen to remove waste solid. The flocculant is added to the filtrated waste water to adsorb and to filtrate micro dust in the waste water.

USE/ADVANTAGE - The flocculant has adsorptive flocculation effect and filtration effect of waste material in waste water. The flocculant is harmless to dispose, because it is not a chemical product, and has economical cost.

0/3

L18 ANSWER 5 OF 6 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD
AN 84-229077 [37] WPIDS
DNC C84-096805
TI Calcium prepn. for oral medicinal use - comprising finely crushed dried egg shells.
DC B04
PA (ONOD-I) ONODA M
CYC 1
PI JP 59137415 A 840807 (8437)* 3 pp
ADT JP 59137415 A JP 83-9757 830124
PRAI JP 83-9757 830124
AB JP59137415 A UPAB: 930925
Prepns. are obtd. by finely ***crushing*** dried ***eggshells*** and formulating into oral prepns..

Suitably fresh eggshells as raw material after elimination of yolk and albumen was washed well with water or warm water and dried at temps. below 80 deg.C (at higher temps.. the live phage dies, and calcium and other minerals are denatured). The dry eggshells are placed in a pulveriser and pulverised at 3600 rpm for 12 mins. at a temp. lower than 80 deg.C. The pulverised eggshell is shifted through a 300 mesh sieve, by which 85% powder is passed, the remaining 15% shell is further pulverised.

USE/ADVANTAGE - Eggshell contains 95.4% $CaCO_3$, 1.5% $MgCO_3$, 0.18% H_2PO_4 and 3.3% proteins as well as live lambda-phage contg. DNA, which can be utilised as mineral source. Moreover eggshell changes acidic constitution in man into slightly alkaline condition.
0/0

ANSWER 6 OF 6 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD
AN 84-110170 [18] WPIDS
DNN N84-081532 DNC C84-046579
TI Processing egg-shells to separate residual adhering egg white etc. - involves drying before or after crushing and subjecting to air sepn..
DC C03 C04 D13 P43
PA (QPPP) QP CORP
CYC 1
PI JP 59049878 A 840322 (8418)* 5 pp
ADT JP 59049878 A JP 82-161394 820916
PRAI JP 82-161394 820916
AB JP59049878 A UPAB: 930925
Eggshells obtained by separating egg liq. from eggs which have been cracked are dried after or before ***crushing*** , and separated into ***eggshell*** film portion and outer shell portion through air sepn.. The outer shell portion obtained includes less than 10% of the eggshell film which was present initially on the ***eggshells*** . The outer shell portion is ***crushed*** to use as livestock feed, fertiliser, or clarifier.

By this method, powder of eggshell may be provided without the necessity for washing which is required in the conventional methods to prevent occurrence of smell due to eggshell film. Further, the egg shell film can be used in removing heavy metals.

0/0

L9 ANSWER 2 OF 7 CA COPYRIGHT 1997 ACS
AN 119:15151 CA
TI Bicarbonate-based dentifrice with reduced abrasive properties
IN Sklyar, Vasilij E.; Kozlyanina, Natalya P.; Tereshina, Tatyana P.; Makhlis, Grigorij L.; Tarasenko, Viktor A.; Gorshkova, Nina V.; Danilova, Aleksandra P.; Misyura, Nikolaj G.
PA Od nii stomatologii, USSR; Krasnodarskaya parfyumerno-kosmeticheskaya fabrika
SO U.S.S.R.
From: Izobreteniya 1992, (30), 21-2.
CODEN: URXXAF
PI SU 1754104 A1 920815
AI SU 89-4646675 890105
DT Patent
LA Russian
AB A $NaHCO_3$ dentifrice contains a caries-inhibiting coating for teeth with reduced abrasive properties which is supplemented with preservative, finely ***ground*** ***eggshell*** and chalk. The dentifrice contains $NaHCO_3$ 35-45, starch 7-9, finely ***ground*** ***eggshell*** 7-9, ascorbic acid 0.4-0.8, nicotinic acid 0.09-0.15, thiamine bromide 0.01-0.05, preservatives 0.2-0.4, sweetening agents 0.2-2.0, aroms. 0.5-1.5 wt.% with the balance chalk.